

INTERNATIONAL SEARCH REPORT

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| Internat | Application No |
| PCT/IB2004/052864 | |

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| A. CLASSIFICATION OF SUBJECT MATTER | | |
| IPC 7 | H01L29/861 | H01L21/329 |
| | | H01L21/225 |

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| According to International Patent Classification (IPC) or to both national classification and IPC |
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| B. FIELDS SEARCHED |
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| Minimum documentation searched (classification system followed by classification symbols) |
| IPC 7 H01L |

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| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched |
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| Electronic data base consulted during the International search (name of data base and, where practical, search terms used) |
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| EPO-Internal, INSPEC, PAJ |
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| C. DOCUMENTS CONSIDERED TO BE RELEVANT |
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| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | LIU J ET AL: "GALLIUM NITRIDE NANOWIRES DOPED WITH SILICON" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 83, no. 20, 17 November 2003 (2003-11-17), pages 4241-4243, XP001191729 ISSN: 0003-6951 abstract | 1,6-11, 14,15 |
| A | EP 1 160 850 A (NEC COMPOUND SEMICONDUCTOR DEVICES, LTD) 5 December 2001 (2001-12-05) paragraph '0019!; figure 9 | 1-21 -/- |

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| <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. |
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| <input checked="" type="checkbox"/> Patent family members are listed in annex. |
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* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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| Date of the actual completion of the International search |
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| 29 March 2005 |
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| Date of mailing of the International search report |
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| 05/04/2005 |
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| Name and mailing address of the ISA |
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| European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl. Fax (+31-70) 340-3016 |
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| Authorized officer |
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| Internal Ref. | Application No. |
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| A | LIANG C H ET AL: "Selective-area growth of indium nitride nanowires on gold-patterned Si(100) substrates" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, US, vol. 81, no. 1, 1 July 2002 (2002-07-01), pages 22-24, XP012031779 ISSN: 0003-6951 page 22; figures 1a,3 ----- | 1-21 |
| A | US 2003/132461 A1 (ROESNER WOLFGANG ET AL) 17 July 2003 (2003-07-17) paragraph '0074!; figure 1c ----- | 11,19,20 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal application No
PCT/IB2004/052864

| Patent document cited in search report | | Publication date | | Patent family member(s) | | Publication date |
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